

#16

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet

1

of

8

Application Number

09/801,360

Filing Date

03/06/2001

First Named Inventor:

Edward L. Schwartz

Art Unit

2624

Examiner Name

Wenpeng Chen

Attorney Docket Number

074451.P127D4

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
we ↑		US-	3,580,655 359/28	5/25/1971	Leith et al.	
		US-	3,950,103 356/450	4/13/1976	Schmidt-Weinmar	
		US-	4,136,954 356/456	1/30/1979	Jamieson	
		US-	4,155,097 375/240.24	5/15/1979	Lux	RECEIVED
		US-	4,190,861 375/240.24	2/26/1980	Lux	
		US-	4,223,354 348/074	9/16/1980	Noble et al.	APR 13 2004
		US-	4,393,456 008/316	7/12/1983	Marshall, Jr.	
		US-	4,437,087 341/151	3/13/1984	Petr	Technology Center 260
		US-	4,569,075 004/203	2/4/1986	Nussbaumer	
		US-	4,599,567 324/06.33	7/8/1986	Goupillaud et al.	
		US-	4,652,881 342/160	3/24/1987	Lewis	
		US-	4,663,660 370/240.1	5/5/1987	Fedele et al.	
		US-	4,674,125 382/303	6/16/1987	Carlson et al.	
		US-	4,701,006 359/19	10/20/1987	Perlmutter	
		US-	4,751,742 382/240	6/14/1988	Meeker	
		US-	4,760,563 367/73	7/26/1988	Beytkin	
		US-	4,785,348 375/240.24	11/15/1988	Fonsalas et al.	
		US-	4,785,349 375/240.23	11/15/1988	Keith et al.	
		US-	4,799,179 008/313	1/17/1989	Masson et al.	
		US-	4,805,129 008/300	2/14/1989	David	
		US-	4,815,023 008/301 352/153	3/21/1989	Arbeiter	
		US-	4,817,182 382/248 308/303	3/28/1989	Adelson et al.	
		US-	4,821,223 008/308	4/11/1989	David	
		US-	4,827,336 375/240.01	5/2/1989	Acampora et al.	
		US-	4,829,378 375/240.11	5/9/1989	Le Gall	
		US-	4,837,517 324/339	6/6/1989	Barber	
		US-	4,839,889 370/210	6/13/1989	Gockler	
		US-	4,858,017 382/240	8/15/1989	Torbey	
		US-	4,864,398 348/443	9/5/1989	Avis et al.	
		US-	4,868,868 004/205	9/19/1989	Yazu et al.	
		US-	4,881,075 341/187	11/14/1989	Weng	
		US-	4,894,713 375/240.2	1/16/1990	Delogne et al.	
		US-	4,897,717 375/240.07	1/30/1990	Hamilton et al.	
		US-	4,899,147 341/160	2/6/1990	Schiavo et al.	
		US-	4,904,073 359/1851	2/27/1990	Lawton et al.	
		US-	4,918,524 375/240.11	4/17/1990	Ansari et al.	
		US-	4,922,544 382/166	5/1/1990	Stansfield et al.	
		US-	4,929,223 493/156	5/29/1990	Walsh	
		US-	4,929,946 341/187	5/29/1990	O'Brien et al.	
		US-	4,936,665 359/1565	6/26/1990	Whitney	
		US-	4,973,961 341/151	11/27/1990	Chamzas et al.	
		US-	4,974,187 008/420	11/27/1990	Lawton	
	we		US-	4,982,283 375/240.12	1/1/1991	Acampora

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INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

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Application Number 09/801,360

Filing Date 03/06/2001

First Named Inventor: Edward L. Schwartz

Art Unit 2624

Examiner Name Wenpeng Chen

Attorney Docket Number 074451.P127D4

Sheet

2

of

8

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
WPC ↑		US-	4,985,927	291/740	1/15/1991	Norwood et al.
		US-	4,987,480	348/396.1	1/22/1991	Lippman et al.
		US-	4,999,705	348/412.1	3/12/1991	Puri
		US-	5,000,183	600/1437	3/19/1991	Bonnefous
		US-	5,001,764	382/1145	3/19/1991	Wood et al.
		US-	5,014,134	382/1240	5/7/1991	Lawton et al.
		US-	5,018,210	382/1145	5/21/1991	Merryman et al.
		US-	5,049,992	348/443	9/17/1991	Citta et al.
		US-	5,049,993	348/448	9/17/1991	Le Gall et al.
		US-	5,068,911	382/1240	11/26/1991	Resnikoff et al.
		US-	5,072,308	358/426.02	12/10/1991	Lin et al.
		US-	5,073,964	382/277	12/17/1991	Resnikoff
		US-	5,081,645	375/146	1/14/1992	Resnikoff et al.
		US-	5,095,447	382/1144	3/10/1992	Manns et al.
		US-	5,097,261	341/151	3/17/1992	Langdon, Jr. et al.
		US-	5,097,331	375/240.11	3/17/1992	Chen et al.
		US-	5,101,280	382/239	3/31/1992	Moronaga et al.
		US-	5,101,446	382/248	3/31/1992	Resnikoff et al.
		US-	5,103,306	348/400.1	4/7/1992	Weiman et al.
	WPC ↓		US-	5,109,451	382/1166	4/28/1992
		US-	5,121,191	348/1443	6/9/1992	Cassereau et al.
		US-	5,124,930	702/76	6/23/1992	Nicholas et al.
		US-	5,128,757	375/240.01	7/7/1992	Citta et al.
		US-	5,128,791	348/469	7/7/1992	Le Gall et al.
		US-	5,148,498	382/1248	9/15/1992	Resnikoff et al.
		US-	5,152,953	266/252	10/6/1992	Ackermann
		US-	5,156,943	430/193	10/20/1992	Whitney
		US-	5,173,880	367/173	12/22/1992	Duren et al.
		US-	5,182,645	348/458	1/26/1993	Breeuwer et al.
		US-	5,223,926	375/240.01	6/29/1993	Stone, et al.
		US-	5,235,434	358/1448	8/10/1993	Wober
		US-	5,241,395	358/426.14	8/31/1993	Chen
		US-	5,262,958	702/75	11/16/1993	Chui et al.
		US-	5,276,525	382/245	1/4/1994	Gharavi
		US-	5,315,670	382/240	5/24/1994	Shapiro
		US-	5,321,776	382/240	6/14/1994	Shapiro
		US-	5,335,016	375/240.03	8/2/1994	Nakagawa
		US-	5,347,479	708/400	9/13/1994	Miyazaki
		US-	5,349,348	341/151	9/20/1994	Anderson et al.
	US-	5,379,355	382/238	1/3/1995	Allen	
	US-	5,381,145	341/107	1/10/1995	Allen et al.	
	US-	5,384,869	382/240	1/24/1995	Wilkinson et al.	
	US-	5,412,741	382/232	5/2/1995	Shapiro	

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Application Number	09/801,360
Filing Date	03/06/2001
First Named Inventor:	Edward L. Schwartz
Art Unit	2624
Examiner Name	Wenpeng Chen
Attorney Docket Number	074451.P127D4

Sheet 3 of 8

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ² (if known)					
we ↑		US-	5,414,780	382/276	5/9/1995	Camahan	
		US-	5,416,604	382/232	5/16/1995	Park	
		US-	5,420,891	375/350	5/30/1995	Akansu	
		US-	5,453,945	008/400	9/26/1995	Tucker et al.	
		US-	5,455,874	382/251	10/3/1995	Ormsby et al.	
		US-	5,481,308	375/240.11	1/2/1996	Hartung et al.	
		US-	5,495,292	375/240.02	2/27/1996	Zhang et al.	
		US-	5,497,435	382/249	3/5/1996	Berger	
		US-	5,511,151	358/1.15	4/23/1996	Russell et al.	
		US-	5,534,925	348/384.1	7/9/1996	Zhong	
		US-	5,537,493	382/240	7/16/1996	Wilkinson	
		US-	5,541,594	341/51	7/30/1996	Huang et al.	
		US-	5,442,458	382/247	8/15/1995	Rabbani et al.	
		US-	5,546,477	382/242	8/13/1996	Knowles et al.	
		US-	5,563,960	382/239	10/8/1996	Shapiro	
		US-	5,566,089	358/1.15	10/15/1996	Hoogenboom	
		US-	5,602,589	375/240.11	2/11/1997	Vishwanath et al.	
		US-	5,631,977	382/239	5/20/1997	Koshi	
		US-	5,638,498	358/1.18	6/10/1997	Tyler et al.	
		US-	5,657,085	348/398.1	8/12/1997	Katto	
		US-	5,701,367	382/239	12/23/1997	Koshi et al.	
	US-	5,717,789	382/254	2/10/1998	Anderson, et al.		
	US-	5,754,793	709/247	5/19/1998	Eom et al.		
	US-	5,808,683	375/240.11	9/15/1998	Tong et al.		
	US-	5,809,176	382/247	9/15/1998	Yajima		
	US-	5,850,482	382/232	12/15/1998	Meany et al.		
	US-	5,867,602	382/248	2/2/1999	Zandi et al.		
	US-	5,880,856	358/426.11	3/9/1999	Ferriere		
	US-	5,966,465	382/232	10/12/1999	Keith et al.		
	US-	6,020,975	358/1.16	2/1/2000	Chen et al.		
	US-	6,026,198	382/247	2/15/2000	Okada		
	US-	6,088,062	348/441	7/11/2000	Kanou et al.		
	US-	6,101,279	382/240	8/8/2000	Nguyen et al.		
	US-	6,118,902	382/240	9/12/2000	Knowles		
	US-	6,121,970	715/1760	9/19/2000	Guedalia		
	US-	6,128,413	382/251	10/3/2000	Benamara		
	US-	6,160,846	375/240.05	12/12/2000	Chiang		
	US-	6,201,897 B1	382/246	3/13/2001	Nixon		
	US-	6,229,929 B1	382/268	5/8/2001	Lynch et al.		
	US-	6,236,765 B1	382/276	5/22/2001	Archarya		
	US-	6,237,010 B1	715/502	5/22/2001	Hui et al.		
	US-	6,263,109 B1	382/232	7/17/2001	Ordentlich et al.		
	US-	6,263,120 B1	382/300	7/17/2001	Matsuoka		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number	09/801,360
Filing Date	03/06/2001
First Named Inventor:	Edward L. Schwartz
Art Unit	2624
Examiner Name	Wenpeng Chen
Attorney Docket Number	074451.P127D4

Sheet	4	of	8
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**Examiner
Signature**

WENPENG CHEN
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Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09/801,360
Filing Date	03/06/2001
First Named Inventor:	Edward L. Schwartz
Art Unit	2624
Examiner Name	Wenpeng Chen
Attorney Docket Number	074451.P127D4

Sheet 5 of 8

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
<i>mc</i>		EPO 0510933 A1	10/28/1992	Canon Kabushiki Kaisha		
		EPO 0593013 A2	4/20/1994	Kabushiki Kaisha Toshiba		
		EPO 0611051 A1	8/17/1994	Canon Kabushiki Kaisha		
		EPO 0622741 A2	11/2/1994	Klics, Ltd.		
		EPO 0967556 A2	12/29/1999	Hewlett-Packard Co.		
		EPO 1035511 A2 <i>GoT 9/00</i>	9/13/2000	Canon Kabushiki Kaisha		
		EPO 1164781 A1 <i>H04N 1/393</i>	12/19/2001	Matsushita Electric Ind. Co., Ltd		
		EPO 701375 A2	3/13/1996	Xerox Corporation		
		JP 06-245077	9/2/1994	Nec Corp.		
		JP 406038193 A	7/17/1992	Casio Computer Co. Ltd.		
		JP 6-350989	12/22/1994	Fuji Photo Film Co. Ltd.		
		JP 7-79350	3/20/1995	Fuji Photo Film Co. Ltd.		
		PCT WO 00/49571	8/24/2000	Digital Accelerator Corp.		
		PCT WO 01/16764 A1	3/8/2001	Rtimage Inc.		
		PCT WO 88/10049	12/15/1988	Eastman Kodak Co.		
		PCT WO 91/03902	3/21/1991	Aware, Inc.		
		PCT WO 91/18361	11/28/1991	Yale University		
		PCT WO 93/10634	5/27/1993	General Electric Co.		
		PCT WO 94/17492	8/4/1994	David Sarnoff Research Ctr., Inc.		
		PCT WO 94/23385 <i>Go 6F 15/32</i>	10/13/1994	Lewis, Adrian		
		PCT WO 95/19683 <i>H04N 7/26</i>	7/20/1995	Houston Advanced Research Ctr.		
		PCT WO 96/09718	3/28/1996	Houston Advanced Research Ctr.		
		UK GB 2 211 691 A <i>H04N 7/13</i>	7/5/1989	Hitachi Ltd.		
		UK GB 2 284 121 A <i>H04N 7/26</i>	5/24/1995	State of Israel- Ministry of Defence		
		UK GB 2 285 374 A <i>H03M 7/40</i>	7/5/1995	Ricoh Company Ltd.		
		UK GB 2 293 733 A <i>H03M 7/30</i>	4/3/1996	Ricoh Company Ltd.		
		UK GB 2 293 734 A <i>H03M 7/30</i>	4/3/1996	Ricoh Company Ltd.		
		UK GB 2 303 030 A <i>H03M 7/30</i>	2/5/1997	Ricoh Company Ltd.		
		UK GB 2 303 031 A <i>H03M 7/30</i>	2/5/1997	Ricoh Company Ltd.		
<i>mc</i>		UK GB 2 341 035 A <i>H04N 7/26</i>	3/1/2000	Ricoh Company Ltd.		

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Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known		
				Application Number	09/801,360	
				Filing Date	03/06/2001	
				First Named Inventor:	Edward L. Schwartz	
				Art Unit	2624	
Examiner Name	Wenpeng Chen	RECEIVED APR 13 2004 Technology Center 2600				
Attorney Docket Number	074451.P127D					
Sheet	6	of	8			
NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²	
me	✓	ANTONINI, et al., "Image Coding Using Wavelet Transform", <u>IEEE Transactions on Image Processing</u> , Vol 1, No. 2, April 1992, pp. 205-220.			-	
↑	✓	BLUMBERG, et al., "Visual Realism and Interactivity for the Internet", IEEE, 1997, pp. 269-273.			-	
	✓	BOLIEK, et al., "Decoding compression with reversible embedded wavelets (CREW) codestreams", <u>Journal of Electronic Imaging</u> , July 1998, vol. 7 (3), pp. 402-409.			-	
	✓	BOLIEK, et al., "JPEG 2000 for Efficient Imaging in a Client/Server Environment", <u>Proceeding of the PIE, SPIE, Bellingham, VA, US, Vol. 4472, July 31, 2001, pp. 212-223, XP008010308.</u>			-	
	✓	BOLIEK, et al., "JPEG 2000 Next Generation Image Compression System", IEEE 0-7803-6297, 45-48.			-	
	✓	CALDERBANK, et al., "Wavelet Transforms That Map Integers to Integers", August 1996.			-	
	✓	CAREY, et al: "Regularity-Preserving Image Interpolation", <u>IEEE Transactions on Image Processing</u> , Vol. 8., No. 9, September 1999, pgs. 1293-1297, XP002246254.			-	
	✓	CARRATO, et al: "A Simple Edge-Sensitive Image Interpolation Filter", <u>Proceedings of the International Conference on Image Processing (ICIP) Lausanne, Sept. 16-19, 1996, New York, IEEE, US, vol. 1, pgs. 711-714, XP010202493.</u>			-	
	✓	CHEN, et al., "Wavelet Pyramid Image Coding with Predictable and Controllable Subjective Picture Quality", <u>IEICE Trans. Fundamentals</u> , Vol. E76-A., No. 9, September 1993, pp. 1458-1468.			-	
	✓	CHEONG, et al., "Subband Image Coding with Biorthogonal Wavelets", <u>IEICE Trans. Fundamentals</u> , Vol. E75-A., No. 7, July 1992, pp. 871-881.			-	
	✓	CHRYSAFIS, et al., "An Algorithm for Low Memory Wavelet Image Compression", IEEE 0-7803-5467-2/99, pg. 354-358.			-	
	✓	CHRYSAFIS, et al., "Line Based Reduced Memory, Wavelet Image Compression," <u>Data Compression Conference, 1998, DCC '98, Proceedings Snowbird, UT, March 1998, pgs. 398-407.</u>			-	
	✓	CHUI, et al., "Wavelets on a Bounded Interval", <u>Numerical Methods of Approximation Theory</u> , Vol. 9, 1992, pg. 53-75.			-	
	✓	CROCHIERE, et al., "Digital Coding of Speech in Sub-bands", 1976, American Telephone and Telegraph Company, The Bell System Technical Journal, Vol. 55, No. 8, October 1976, p. 1069-1085.			-	
	✓	DENK, et al., "Architectures for Lattice Structure Based Orthonormal Discrete Wavelet Transforms", <u>IEEE</u> , 1994, pp. 259-270.			-	
	✓	DESHPANDE, et al., "HTTP Streaming of JPEG2000 Images", IEEE, 2001, pp.15-19.			-	
	✓	Dutch Search Report, 133082, 11/26/96.			-	
	✓	ESTEBAN, et al., "1977 IEEE International Conference on Acoustics, Speech & Signal Processing", "Application of Quadrature Mirror Filters to Split Band Voice Coding Schemes", p. 191-195.			-	
	✓	French Search Report, FR9511023, 11/26/96.			-	
	✓	French Search Report, FR9511024, 11/26/96.			-	
	✓	German Search Report, Dated March 21, 1997, 3 pages.			-	
me	✓	GHARAVI, et al., "Proceedings: ICASSP 87", 1987 International Conference on Acoustics, Speech, and Signal Processing, April 6, 7, 8, 9, 1987, Volume 4 of 4, "Application of Quadrature Mirror Filtering to the Coding of Monochrome and Color Images", p. 2384-2387.			-	

WENPENG CHEN

PRIMARY EXAMINER

Based on Form PTO/SB/08B (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03.

8/16/04

attached to #109

Substitute for Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number 09/801,360
 Filing Date 03/06/2001
 First Named Inventor: Edward L. Schwartz
 Art Unit 2624
 Examiner Name Wenpeng Chen
 Attorney Docket Number 074451.P127D4

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APR 13 2004

Sheet

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of

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NON PATENT LITERATURE DOCUMENTS

Technology Center 2600

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
<i>me</i>		GHARAVI, et al., "Sub-band Coding of Digital Images Using Two-Dimensional Quadrature Mirror Filtering", SPIE Vol. 707 Visual Communications and Image Processing, 1986, p. 51-61.	
<i>↑</i>		GORDON, BENJAMIN M., et al., "A 1.2 mW Video-Rate 2-D Color Subband Decoder," IEEE Journal of Solid-State Circuits, IEEE Inc. New York, Vol. 30, No. 12, Dec. 1, 1995, pgs. 1510-1516.	
		HAUF, et al., "The FlashPix™ Image File Format", The Fourth Color Imaging Conference: Color Science, Systems and Application, 1996, pp. 234-238.	
		HOWARD, et al., "Fast and Efficient Lossless Image Compression", IEEE, 1993, pp. 351-360.	
		Information Technology - JPEG 2000 Image Coding System - Part 1: Core Coding System, ISO/IEC 15444-1, 12/15/2000, pg. 5, 14, 22.	
		International Search Report for Application No.: GB 9518298.6, dated 8. November 1995.	
		JPEG 2000 Part 1 Final Committee Draft Version 1.0, Image Compression Standard described in ISO/IEC 1/SC 29/WG 1 N1646, 16 March 2000.	
		KOMATSU, et al., "Reversible Subband Coding of Images", SPIE Vol. 2501, pp. 676-648.	
		LANGDON, JR., "Sunset: A Hardware-Oriented Algorithm for Lossless Compression of Gray Scale Images", SPIE Vol. 1444, Image Capture, Formatting, and Display, 1991, pp. 272-282.	
		LE GALL, et al., "Sub-band coding of Digital Images Using Symmetric Short Kernel Filters and Arithmetic Coding Techniques", 1988, International Conference on Acoustics, Speech and Signal Processing, pp. 761-764.	
		LEWIS, et al., "Image Compression Using the 2-D Wavelet Transform", IEEE Transactions on Image Processing, Vol. 1, No. 2, April 1992, pp. 244-250.	
		LUX, P., "A Novel Set of Closed Orthogonal Functions for Picture Coding", 1977, pp. 267-274.	
		MARCELLIN, et al., "An Overview of JPEG-2000", Proceedings. DCC 2000 Snowbird, UT, USA, March 28-30, 2000, pp. 523-541, XP010377392.	
		MENG, TERESA H., "A Wireless Portable Video-on-Demand System," VLSI Design, 1998, Proceedings Eleventh International Conference on Chennai, India 407, Jan. 1998, California, pgs. 4-9.	
		OHTA, et al., "Wavelet Picture Coding with Transform Coding Approach", July 1992, No. 7, pp. 776-784.	
		PADMANABHAN, et al., "Feedback-Based Orthogonal Digital Filters", IEEE Transactions on Circuits and Systems, 8/93, No. 8, pp. 512-525.	
		POLLARA et al., "Rate-distortion Efficiency of Subband Coding with Integer Coefficient Filters", 7/1994, pg. 419, Information Theory, 1994, IEEE.	
		REEVES, et al: "Multiscale-Based Image Enhancement", Electrical and Computer Engineering, 1997. Engineering Innovation: Voyage of Discovery. IEEE 1997 Canadian Conference on St. Johns, NFLD., Canada May 25-28, 1997, New York, NY. (pgs. 500-503), XP010235053.	
		REUSENS, "New Results in Subband/Wavelet Image Coding", 5/1993, pg. 381-385.	
<i>WPC</i>		SAID, et al., "Image Compression Using the Spatial-Orientation Tree", IEEE, 1993, pp. 279-282.	
<i>WPC</i>		SAID, et al., "Reversible Image Compression Via Multiresolution representation and Predictive Coding", 8/11/93, pp. 664-674.	

PRIMARY EXAMINER

Based on Form PTO/SB/08B (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03.

8/16/04 attached to #119

Substitute for Form 1449/PTO		APR 9 2004		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/801,360
				Filing Date	03/06/2001
				First Named Inventor:	Edward L. Schwartz
				Art Unit	2624
				Examiner Name	Wenpeng Chen
Sheet	8	of	8	Attorney Docket Number	074451.P127D4

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	✓	SHAH, et al., "A Chip Set for Lossless Image Compression", <u>IEEE Journal of Solid-State Circuits</u> , Vol. 26, No. 3, March 1991, pp. 237-244.	-
	✓	SHAPIRO, J. M., "An Embedded Hierarchical Image Coder Using Zerotrees of Wavelet Coefficients", <u>IEEE</u> , 1993, pp. 214-223.	-
	✓	SHAPIRO, J. M., "Embedded Image Coding Using Zerotrees of Wavelet Coefficients", <u>IEEE Transactions on Signal Processing</u> , 12/93, No. 12, pp. 3445-3462.	-
	✓	SMITH, et al., "Exact Reconstruction Techniques for Tree-Structured Subband Coders", <u>IEEE Transactions on Acoustics, Speech, and Signal Processing</u> , Vol ASSP-34, No. 3, June 1986, pp. 434-441.	-
	✓	STOFFEL, et al: "A Survey Of Electronic Techniques For Pictorial Image Reproduction," <u>IEEE Transactions On Communications</u> , vol. COM-29, no. 12, December 1981, pp. 1898-1925, XP000560531 IEEE, New York (US).	-
	✓	SZU, et al., "Image Wavelet Transforms Implemented by Discrete Wavelet Chips", <u>Optical Engineering</u> , July 1994, Vol. 33, No. 7, pp.2310-2325.	-
	✓	VETTERLI, Martin, "Filter Banks Allowing Perfect Reconstruction", <u>Signal Processing</u> 10 (1986), pp. 219-244.	-
	✓	VETTERLI, Martin, "Multi-Dimensional Sub-band Coding: Some Theory and Algorithms", <u>Signal Processing</u> 6 (1984) pp. 97-112.	-
	✓	VILLASENOR, et al., "Filter Evaluation and Selection in Wavelet Image Compression", <u>IEEE</u> , 1994, pp. 351-360.	-
	✓	WESTERNICK, et al., "Proceedings: ICASSP 87", 1987 International Conference on Acoustics, Speech, and Signal Processing, April 6, 7, 8, 9, 1987, Volume 3 of 4, "Sub-band coding of Images Using Predictive Vector Quantization", p. 1378-1381.	-
	✓	WOODS, "Subband Image Coding", 1991, pages 101-108, 163-167, and 180-189.	-
	✓	WOODS, et al., "Subband Coding of Images", <u>IEEE Transactions on Acoustics, Speech, and Signal Processing</u> , Vol. 1 ASSP-34, No. 5, October 1986, pp. 1278-1288.	-
	✓	WOODS, et al., "Sub-band coding of Images", Proceedings ICASSP 86, Tokyo, Japan, April 1986, p. 1005-1008.	-
	✓	WU, et al., "New Compression Paradigms in JPEG2000", Applications of Digital Image Processing XXIII, San Diego, CA USA, July 31-Aug 3, 2000, vol. 4115, pp. 418-429, XP008013391, Proceedings of the DPPIE - The International Society for Optical Engineering, 2000, SPIE-Int. Soc. Opt. Eng., USA.	-
✓	XIONG, et al., "Joint Optimization of Scalar and Tree-structured Quantization of Wavelet Image Decompositions", 01/11/93, pp. 891-895.	-	

Examiner Signature	WENPENG CHEN PRIMARY EXAMINER	Date Considered	8/16/04
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. *attached to #19*

Substitute for Form 1449A/PTO (Modified)

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/801,360
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Filing Date	3/6/01
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First Named Inventor:	Edward L. Schwartz
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Group Art Unit	2185
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Examiner Name	Not Yet Assigned
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Attorney Docket Number	74451.P127 Technology Center 260P
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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**Examiner
Signature**

WENPENG CHEN
PRIMARY EXAMINER

Date Considered

2/18/04

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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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48 20/2 AUG 16 2002

Substitute for Form 1449/APTO (Modified)		Technology Center 2600	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	09/801,360
		Filing Date	3/6/01
		First Named Inventor:	Edward L. Schwartz
		Group Art Unit	2185
		Examiner Name	Not Yet Assigned
Sheet 2 of	20	Attorney Docket Number	74451.P127D4
OTHER ART - NO PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
<i>me</i>	5	CHRYSAFIS, CHRISTOS, et al. "Line Based Reduced Memory, Wavelet Image Compression," Data Compression Conference, 1998, DCC '98, Proceedings Snowbird, UT, March 1998, pgs. 398-407.	
<i>me</i>	6	GORDON, BENJAMIN M., et al., "A 1.2 mW Video-Rate 2-D Color Subband Decoder," IEEE Journal of Solid-State Circuits, IEEE Inc. New York, Vol. 30, No. 12, Dec. 1, 1995, pgs. 1510-1516.	
<i>me</i>	7	MENG, TERESA H., "A Wireless Portable Video-on-Demand System," VLSI Design, 1998, Proceedings Eleventh International Conference on Chennai, India 407, Jan. 1998, California, pgs. 4-9.	

Examiner Signature	<i>Wenpeng Chen</i>	WENPENG CHEN PRIMARY EXAMINER	Date Considered	2/18/04
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*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

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